ClinPharm 101

SPOT QUIZ #1

Please take 5 minutes to answer these questions

1) Circle the functional unit of the lung where gas exchange takes place consists of:
   a. Bronchioles
   b. Alveolar ducts
   c. Alveoli
   d. All of the above

2) Circle the correct answer(s)
   a. Tidal volume is 500 ml in a healthy individual
   b. The surface area of the lung is primarily due to the ciliated epithelium
   c. The pulmonary artery carries the purified blood to the "feed" the rest of the organs in the body
   d. The residual volume increases in the lungs of individuals with disease

3) True or False
   a. The thickness of the surface lining increases from the central region going towards the peripheral region of the lung – True or False.
   b. The ciliary clearance is increased in chronic smokers in response to "clean" the lungs of the particulate deposits. – True or False
   c. The surfactants increase the surface tension of the aqueous mucosal fluid – True or False
   d. There are close to 60 different cell types lining the inside layer of the lung – True or False.

4) Circle the correct answer(s)
   a. The epithelial lining of the alveoli region consists of Type I and Type II cells
   b. The Type I cells have a very large surface area (~5000 microns/cell).
   c. The lymphatic drainage system is very efficient in the lung and sometimes allows compounds to bypass many of the barriers and facilitates entry into the blood stream
   d. The endothelial barrier is a rate-limiting step to uptake of compounds into the blood stream.

PM3006723073

Source: https://www.industrydocuments.ucsf.edu/docs/qmbj0001